

**STATEMENT**

**OF**

**WORK**

**(SOW)**

**FOR THE IROAN OF  
POWER UNIT, FRONT, 12 ½ T 4x4,  
LOGISTICS VEHICLE SYSTEM  
MK-48**

**NSN 2320-01-177-5167**

**MK-48**

**CONTROL NR: SOW-02-835-1-08780A-2/2**

**EFFECTIVE DATE: 01 OCT 2001**

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STATEMENT OF WORK FOR THE  
Power Unit, Front, 12 ½ T 4x4, Logistics Vehicle System (LVS) MK-48  
Inspect Repair Only As Necessary (IROAN)

1.0 SCOPE. This Statement of Work (SOW), along with Rebuild Standard RS 08780A/B-50, with change 1, establishes and sets forth tasks and identifies the work efforts that shall be performed by the contractor in the IROAN effort of the LVS MK48. These documents contain requirements to restore the LVS MK48 to Condition Code "A." Condition Code A is defined as "serviceable/issuable without qualification, new, used, repaired, or reconditioned materiel which is serviceable and issuable to all customers without limitation or restriction. National Stock Number 2320-01-177-5167 shall be known as the LVS MK48.

1.1 Background IROAN is defined as "That maintenance technique which determines the Minimum repairs necessary to restore equipment components or assemblies to prescribed maintenance serviceability standards by utilizing all available diagnostic equipment and test procedures in order to minimize disassembly and parts replacement."

2.0 APPLICABLE DOCUMENTS. The following documents form a part of this SOW to the extent specified. Unless otherwise specified, the issues of these documents are those listed in the issue of Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto which is in effect on the date of solicitation. In the event of conflict between the documents referenced herein and the contents of this SOW, the contents of this SOW shall be the superseding requirement.

2.1 Military Standards

MIL-STD-129	DoD Standard Practice for Military Markings
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2.2 Other Government Documents and Publications. The issues of those documents cited below shall be used.

MI-08780A 25/1	Installation of Blackout Drive Light
MI-08780A 35/2	M16 Rifle Mount Kit
MI-08780A 35/3	Manual Engine Shutdown Cable
MI-11240-35/20	Replacement of the Turn Signal Control Arm
TI-08780A-25/1	Installation of Solargizer
RS 08780A/B-50	Depot Maintenance Manual LVS Power Unit MK48 With change 1
TM-3080-50	Corrosion Prevention Control
ATPD 2241	Vehicles, Wheeled: Preparation for Shipment and Storage

DOD 4000.25-1-M	MILSTRIP Manual
NAVICPINST 4491.2A	Instruction Requisitioning of Contractor Furnished Materiel from the Federal Supply System
TM-08780-CD	Logistics Vehicle System
Allison Transmission Service Manual/HT 700 Series (Latest Edition when this SOW is effective)	
Detroit Diesel 92, Series Service Manual (2 book Set) (Latest Edition when this SOW is effective)	
A05249900-1DW	Accumulator
A05130000-3DW	Replacement of Hydraulic Hose Assemblies
A05139900-1DW	Elimination of Installing Battery Post Shield
A04059900-1DW	Articulation Joint Assembly
A03319900-2DW	Spring and Seat Assembly
A03319900-3DW	Epoxy Coating of Fuel Tanks
A03319900-1DW	Epoxy Coating of Air Reservoirs
A03039900-1DW	Blasting of PEI's Components and sub-assemblies

Military Handbooks (For Guidance)

MIL-HDBK-61	Configuration Management Guidance
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2.3 Industry Standards

ANSI/ISO/ASQC Q9002-1994	Quality Systems-Model for Quality Assurance in Production, Installation, and Servicing
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Industry Standards (For Guidance)

ANSI/EIA-C-49	National Consensus Standard for Configuration Management
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Copies of Military Standards and Specifications are available from the DOD Single Stock Point, Document Automation and Production Service, Building 4D, 700 Robbins Avenue, Philadelphia,

PA. 19111-5094. Telephone (215) 697-2179 or DSN 442-2179, or <http://www.dodssp.daps.mil>. Copies of other government documents and publications required by contractors in connection with specific SOW requirements shall be obtained through the Contracting Officer: Commander, (Code 891) Marine Corps Logistics Bases, 814 Radford Blvd., Albany, Georgia 31704-1128, commercial telephone number (229) 639-6761 or DSN 567-6761. Copies of engineering drawings shall be obtained from Life Cycle Management Center, Attn: Code 851-3, 814 Radford Blvd. STE 20320, Albany, Georgia 31704-0320, commercial telephone number (229) 639-6410 or DSN 567-6410.

### 3.0 Requirements

#### 3.1 General Tasks. In fulfilling the specified requirements, the contractor shall:

- a. Provide materials, labor, facilities, repair parts, and missing parts necessary to inspect, diagnose, restore, and test the LVS MK48. Upon completion of IROAN, repaired vehicles shall be Condition Code "A."
- b. Provide all tools and test equipment required to test, inspect, and calibrate the LVS MK48.
- c. Conduct final on-site testing for witness by an MCLB, Albany, Georgia, representative (Code 835).
- d. Be responsible for all structural, electrical and mechanical requirements associated with the restoration of the LVS MK48 using TM-08780-CD as guidance.
- e. Conduct a rebuild of the LVS MK48 transmission using Allison Transmission Service Manual/HT 700 Series as guidance.
- f. Conduct a rebuild of the LVS MK48 transfer.
- g. Conduct a rebuild of the LVS MK48 engine using Detroit Diesel 92, Series Service Manual (2 book set).
- h. Conduct 100 percent replacement of the LVS MK48 radiator core.
- i. Conduct 100 percent replacement of hydraulic hoses.
- j. Provide 100 percent replacement of brake linings and brake springs.
- k. Conduct 100 percent cab replacement.
- l. Be responsible for converting the "Deadman Axle" from the old configuration to the new configuration if not previously converted. The new Deadman axle has a solid shaft installed.

- m. Be responsible for all corrosion prevention and control in accordance with the latest TM-3080-50.

3.2 Detailed Tasks. The following tasks describe the different phases for IROAN of the LVS MK48:

3.2.1 Phase I – Pre-Induction. A pre-induction inspection analysis shall be performed for each LVS MK48 to determine extent of work and parts required in accordance with RS 08780A/B-50, paragraph 2-1.f. If it is determined that the cost of repair exceeds the standard unit price or acquisition/replacement cost as imposed by current Marine Corps directives or for any other reason, the contractor facility rejects an IROAN candidate, the government shall be provided by the contractor facility, a completed copy of the Initial Inspection Checklist located in Table 2-1 of RS 08780A/B-50 to include a cost estimate and a request for specific instructions to MCLBA (Code 835) in accordance with Section 4.0 of this SOW. The intent of this clause is to preclude the arbitrary rejection of “IROAN” candidates by the contractor based solely on cost criteria directed by current Marine Corps directives. MCLBA (Code 835) retains the right to make the final decision to restore the end item to a serviceable (condition code A) asset in the most expeditious manner to enhance Marine Corps readiness. Those items requiring 100 % rebuild in Section 3.0 shall not be subject to a pre-induction inspection analysis.

3.2.2 Phase II – IROAN. After pre-induction tests and inspections have been completed, repair of the LVS MK48 shall be accomplished in accordance with this SOW and RS 08780A/B-50 at the contractor’s facility. Deficiencies noted on the Initial Inspection Checklist during Phase I shall be repaired/replaced.

- a. Data plate. LVS MK48 shall have an IROAN data plate located on the driver’s side door next to the original manufacturer’s data plate. This plate (refer to Figure 1) shall be constructed of metal and is to be attached after the vehicle has completed the IROAN cycle. The data plate shall contain the following information:

VEH. SER. NO. \_\_\_\_\_ DATE \_\_\_\_\_  
 OVERHAULED IN ACCORDANCE WITH INSPECT AND REPAIR ONLY AS  
 NECESSARY (IROAN) CONTAINED IN SOW-02-835-1-08780A-2/1 DATED  
1 OCTOBER 2001

ODOMETER READING AT TIME OF  
 IROAN \_\_\_\_\_

CONTRACTOR \_\_\_\_\_

(Figure 1)

NOTE: Odometers on LVS MK48’s repaired under the provisions of this SOW shall not be reset to zero.

- b. Hardware

(1) Replace broken, unserviceable, and/or missing hardware including nuts, bolts, screws, washers, turnlock fasteners, etc., in accordance with the LVS MK48 RS 08780A/B-50. Unserviceable would include any of the above that failed to function properly.

(2) Ensure proper hardware locking devices are present on all moving mechanical assemblies.

(3) Hardware normally supplied with commercial parts shall be used unless specifically prohibited.

(4) The contractor is authorized to fabricate "by sample" any item/part for the LVS MK-48, which an Engineering Drawing does not exist or for any other reason the government may approve. The hydraulic hoses and the frame horns are acceptable items for this method at this time.

c. Application of Modification Instruction (MI's) and Technical Instructions (TI). The following MI's shall be applied during this phase of the IROAN process: MI-08780A-25/1, MI-08780A-35/2, MI-11240-35/20 & MI-08780A-35/3 and TI-08780A-25/1.

### 3.2.3 Phase III - Inspection, Testing, and Acceptance.

a. Inspection, Testing and Acceptance of the LVS MK48 shall be conducted in accordance with the Road Test and Final Inspection Checklist located in Table 2-4 of RS 08780A/B-50. This completed document shall be provided in accordance with Section 4.0 of this SOW. The Road Test shall be conducted under full load (22.5 Tons).

b. The contractor shall be responsible for conducting required tests and shall ensure all necessary personnel are available to complete the final acceptance. Acceptance tests shall be held at the contractor's facility. MCLB, Albany, Georgia, representatives (Code 835) shall be given a minimum of two weeks notice prior to beginning acceptance testing. The test area shall be cleared of all equipment parts, components, etc., not required for testing.

c. The contractor shall be responsible for correcting any deficiencies identified during inspection/testing. MCLB Albany, Georgia, (Code 835) may require the contractor to repeat tests or portions thereof, if the original tests fail to demonstrate compliance with this SOW.

d. Acceptance testing on all LVS MK48 vehicles under the provisions of this SOW shall be accomplished in accordance with RS 08780A/B-50.

### 3.2.4 Packaging, Handling, Storage and Transportation (PHS&T)

a. The contractor shall be responsible for preservation and packaging of items being repaired under the terms of this statement of work. Items being scheduled for shipment shall be in accordance with the level A requirements of ATPD 2241.

b. Marking shall be in accordance with MIL-STD-129.

c. The Marine Corps will provide the contractor with the delivery destination of the repaired equipment (Normally for the LVS, delivery will be to stock). The Weapon System Manager shall be responsible for arranging for shipment (from stock) to the pre-designated site(s). The Marine Corps will be responsible for transportation costs associated with shipping the subject equipment to and from the Contractor.

3.3 Configuration Control. The contractor shall apply configuration control procedures to established configuration items. The contractor shall not implement configuration changes to an item's documented performance or design characteristics without prior written authorization. If it is necessary to temporarily depart from the authorized configuration, the contractor shall prepare and submit a Request For Deviation. MIL-HDBK-61 (paragraph 4.3 and Table 4-9) and ANSI/EIA-649 (paragraph 5.3.4) provide guidance for preparing this configuration control document.

3.3.1 The following Waivers have been approved for this IROAN effort.

- a. A052409001DW Accumulator
- b. A051309003DW Replacement of Hydraulic Hose Assemblies
- c. A051309001DW Elimination of Installing Battery Post Shield
- d. A040509001DW Articulation Joint Assembly
- e. A033109002DW Spring and Seat Assembly
- f. A033109003DW Epoxy Coating of Fuel Tanks
- g. A033109001DW Epoxy Coating of Air Reservoirs
- h. A030309001DW Blasting of PEI's Components, and sub-assemblies

3.4 Government Furnished Equipment (GFE)/Government Furnished Materiel (GFM). GFE is government owned equipment authorized by contract for use by a commercial/Government contractor. It is neither consumed during production nor incorporated into any product. GFM is materiel furnished to a contractor that will be consumed during the course of production or incorporated into the product being manufactured under a contract/statement of work. In the event the Marine Corps does have GFE/GFM requirements the Management Control Activity (MCA/Code 827-2), Marine Corps Logistics Bases, Albany, Georgia, will coordinate required GFE and will maintain a central control on Marine Corps assets in the Contractor's possession. The MCA will forward a GFE Accountability agreement to the Contractor Facility for signature to establish a chain of custody and property responsibilities for Marine Corps assets.

3.5 Contractor Furnished Materiel (CFM). The Marine Corps has adopted the Navy's procedures regarding Contractor Furnished Materiel (NAVICPINST 4491.2A). DOD 4000.25-1-M, (MILSTRIP) chapter 11 authorizes contractors to requisition through the DOD Supply System.

3.6 Quality Assurance Provisions. The contractor shall provide and maintain a Quality System that as a minimum adheres to the requirement of ANSI/ISO/ASQC Q9002-1994, Quality System Model for Quality Assurance in Production, Installation, and Servicing. Performance of the



contractor and the quality of work delivered, materiel provided, and documents written shall be subject to review and inspection by MCLB, (Code 835) Albany representatives during work performance at any work location. Authorized MCLB (Code 835), Albany, Georgia, representatives shall be permitted to observe the work/task accomplishment or to conduct inspections during working hours. Inspection by MCLB, (Code 835) Albany, Georgia, representatives, of test plans and materials furnished hereunder does not relieve the contractor from any responsibility regarding defects or other failures to meet work requirements which may be disclosed prior to final acceptance. Failure of the contractor to promptly correct deficiencies discovered shall be reason for suspension of acceptance until corrective action has been accomplished. The contractor shall have in place documented procedures and standards for inspection requirements and the contractor's work shall be subject to reviews and inspections for compliance with these procedures and standards by MCLB, (Code 835) Albany, Georgia representatives. Noncompliance with procedures resulting in degraded quality of work may result in a stop-work order requiring action by the contractor to correct the work performed and to enforce compliance with quality assurance procedures or face work termination. Notwithstanding such MCLB, (Code 835) Albany, Georgia, representative inspection, it shall be the contractor's responsibility to ensure that the system meets the performance requirements delineated and addressed in this SOW.

3.7 Rejection. Failure to comply with any of the specified requirements listed herein shall be reason for rejection by MCLB, (Code 835) Albany, Georgia. The contractor shall, at no additional cost to MCLB, Albany, Georgia, provide the following:

- a. Develop an approach for modification or correction of all deficiencies.
- b. Upon approval of a documented approach, the contractor shall correct the deficiencies and repeat the verification until an acceptable compliance with acceptance test procedures requirements is demonstrated.

#### 4.0 REPORTS

4.1 Parts Usage Data Report. The contractor shall provide a Parts Usage Data Report for every twenty vehicles produced. This report shall be in the Contractors format and as a minimum, list by nomenclature, National Stock Number (NSN), Part Number, price and quantity of all parts replaced. The report shall be provided to Commander (Code 835-1), Marine Corps Logistics Bases, 814 Radford Blvd. Suite 20320, Albany, Georgia 31704-0320. Appendix A is provided as a sample.

4.2 Initial Inspection Checklist/Road Test and Final Inspection Checklist. The contractor shall complete the Road Test and Final Inspection Checklist for each LVS MK48 repaired. These documents shall be available during final acceptance testing. One copy of each document shall be provided to Commander (Code 835-1), Marine Corps Logistics Bases, 814 Radford Blvd. Suite 20320, Albany, Georgia 31704-0320, after final acceptance of the LVS MK48.

	Fig #	Item	Kit No.	FSC	NSN	Part #	Qty	Unit \$	Total \$	Replcd %	Replace	Used
TM 2320-24P/14B												
Cab Assm												
Cab												
(Sheetmetal)												
Visor												
Step Bracket												
Steps, Cab (A1)												
Rifle Racks (M.I.)(A1)												
Rack, Storage												
Cover, Access Assm, LH												
Auxiliary Panel Assm												
Access Cover Assm, RH												
Panel, Top												
Seat and Frame Assy (Driver)												
Seat Cushions												
Upholstery, Seat Back												
Belts												
3 Point Seat Belts (A1)												
Absorber, Shock												
Support, Seat												
Seat and Frame Assy (Pass, Fold Down)												
Seat Cushions												
Belts												
3 Point Seat Belts (A1)												
Support, Seat												
Instrument Panel Assembly												
Weldment, Dash Panel												
Harness, Panel												
Plate, Side Panel												
Gages												
Gage, Oil Pressure												
Gage, Air Pressure												
Gage, Fuel												
Gage, Water Temp												
Gage, Transmission Oil Temp												
Gage, Voltmeter												
Gage, Hydraulic Oil Temp												
Tachometer												
Speedometer												
Warning Lights												

Light, Warning Green	73	57	6210	010531290	1053628	3	\$23.07	\$69.21
Light, Warning Shield, Light	75	2	6210	012064754	1053621	2	\$20.74	\$41.48
Buzzer Warning System	75	1	6210	010549460	1215	3	\$3.05	\$9.15
Low Air Pressure Alarm	75	29	6350	001024210	SC628	1	\$85.77	\$85.77
Drive Line Lockup Valve	73	77	6350	010524043	443724	1	\$0.00	\$0.00
Air Brake Valve(Air Control)	161	55	4820	010505584	285402	1	\$63.92	\$63.92
Air Restrictor Indicator	169	1	01MRP2642	011517984	118569	1	\$162.69	\$162.69
	33	6	2940	011544713	RAX007388	1	\$18.18	\$18.18

# CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved  
OMB No. 1704-0188

The Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302 and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Printing Office, Contract Officer for the contract/PR No. listed in block E.

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP _____ TM _____ Other XXX _____
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D. SYSTEM/ITEM Logistics Vehicle System, M-48	E. CONTRACT/PR No.	F. CONTRACTOR
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1. DATA ITEM No. A001	2. TITLE OF DATA ITEM Request for Deviation (RFD)	3. SUBTITLE Configuration Management
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4. AUTHORITY (Data Acquisition Document No.) DI-CMAN- 80640C	5. CONTRACT REFERENCE Paragraph 3.3	6. REQUIRING OFFICE MARCORLOGBASES 851-2
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7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED A	11. FREQUENCY AS REQ	12. DATE OF FIRST SUBMISSION See Blk 16	14. DISTRIBUTION a. ADDRESSEE b. COPIES Draft Reg Repro
8. APP CODE		10. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	

16. REMARKS Contractor format is authorized and shall be submitted in .doc and .pdf format.  RFDs will be reviewed and disposition determined within 30 working days upon receipt by the government.  RFDs shall be transmitted via e-mail to the following address: <a href="mailto:mbmatcomconfigmgmnt@matcom.usmc.mil">mbmatcomconfigmgmnt@matcom.usmc.mil</a>  Distribution Statement A: Approved for public release, distribution is unlimited.	15. TOTAL	2
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G. PREPARED BY: <i>[Signature]</i>	H. DATE	I. APPROVED BY: <i>[Signature]</i>	J. DATE 3-01-00
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17. PRICE GROUP
18. ESTIMATED TOTAL PRICE